

NOTICE OF DRAFTSPERSON'S
PATENT DRAWING REVIEWThe drawing(s) filed (insert date) 2/11/02 are:

A. approved by the Draftsperson under 37 CFR 1.84 or 1.152.
 B. objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:
 — Black ink. Color.
 — Color drawings are not acceptable until petition is granted.
 Fig(s) _____
2. PHOTOGRAPHS. 37 CFR 1.84(b)
 — 1 full-tone set is required. Fig(s) _____
 — Photographs may not be mounted. 37 CFR 1.84(e)
3. TYPE OF PAPER. 37 CFR 1.84(e)
 — Paper not flexible, strong, white, and durable.
 Fig(s) _____
 — Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s) _____
 — Mylar, velum paper is not acceptable (too thin).
 Fig(s) _____
4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:
 — 21.0 cm by 29.7 cm (DIN size A4)
 — 21.6 cm by 27.9 cm (8 1/2 x 11 inches)
 — All drawing sheets not the same size.
 Sheet(s) _____
 — Drawings sheets not an acceptable size. Fig(s) _____
5. MARGINS. 37 CFR 1.84(g): Acceptable margins:
 Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm
 SIZE: A4 Size
 Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm
 SIZE: 8 1/2 x 11 in
 Margins not acceptable. Fig(s) _____
 Top (T) _____ Left (L) _____
 Right (R) _____ Bottom (B) _____
6. VIEWS. 37 CFR 1.84(h)
 REMINDER: Specification may require revision to correspond to drawing changes.
 Partial views. 37 CFR 1.84(h)(2)
 — Brackets needed to show figure as one entity.
 Fig(s) _____
 — Views not labeled separately or properly.
 Fig(s) _____
 — Enlarged view not labeled separately or properly.
 Fig(s) _____
7. SECTIONAL VIEWS. 37 CFR 1.84 (h)(3)
 — Hatching not indicated for sectional portions of an object.
 Fig(s) _____
 — Sectional designation should be noted with Arabic or Roman numbers. Fig(s) _____
8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)
 — Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____
9. SCALE. 37 CFR 1.84(k)
 — Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.
 Fig(s) _____
10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)
 — Lines, numbers & letters not uniformly thick and well defined, clean, durable, and sharp (poor line quality).
 Fig(s) _____
11. SHADING. 37 CFR 1.84(m)
 — Solid black areas pale. Fig(s) _____
 — Solid black shading not permitted. Fig(s) _____
 — Shade lines, pale, rough and blurred. Fig(s) _____
12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)
 — Numbers and reference characters not plain and legible.
 Fig(s) _____
 — Figure legends are poor. Fig(s) _____
 — Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1).
 Fig(s) _____
 — English alphabet not used. 37 CFR 1.84(p)(2).
 Fig(s) _____
 — Numbers, letters and reference characters must be at least 3.2 cm (1 1/4 inch) in height. 37 CFR 1.84(p)(3)(ii).
 Fig(s) _____
13. LEAD LINES. 37 CFR 1.84(q)
 — Lead lines cross each other. Fig(s) _____
 — Lead lines missing. Fig(s) _____
14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(i)
 — Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) _____
15. NUMBERING OF VIEWS. 37 CFR 1.84(u)
 — Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____
16. CORRECTIONS. 37 CFR 1.84(w)
 — Corrections not made from prior PTO-948 dated _____
17. DESIGN DRAWINGS. 37 CFR 1.152
 — Surface shading shown not appropriate. Fig(s) _____
 — Solid black shading not used for color contrast.
 Fig(s) _____

COMMENTS

- Arrows in shaded areas must be shown clear
 (Pg 9A)

- "SE" in Fig 1B7 should be "S17"

REVIEWER _____

DATE 3/20/03TELEPHONE NO. 7033058404ATTACHMENT TO PAPER NO. 5